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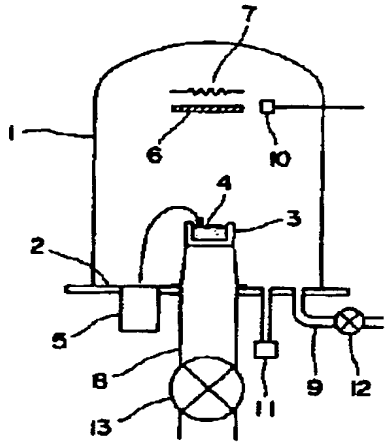
TITLE : MANUFACTURE OF RADIATION IMAGE CONVERSION PANEL



ABSTRACT : PURPOSE: To obtain the sufficient sharpness of a radiation image as well as radiation sensitivity and image graininess by secularly increasing deposition velocity on a substrate in forming a phosphor layer of stimurable phosphor via a vapor phase deposition method.

CONSTITUTION: A substrate 6 is first placed in a vacuum bath 1. This bath 1 is, then, exhausted and the substrate 6 is heated by a heater 7 for cleaning the surface thereof. Also, the temperature of the substrate 6 is set at the predetermined level. Thereafter, an electron beam from an electron beam generator 5 irradiates a vaporization source 4(phosphor layer of accelerated phosphorescence or the like), thereby vaporizing the source 4. During the aforesaid vaporization process, the deposition velocity of a vaporized material on the substrate 6 is security increased. The deposition velocity is adjusted via the control of the irradiation state by the generator 5. In addition, the deposition velocity V_2 upon termination of vaporization is taken at a level approximately 1.5 times or more of the deposition velocity V_1 at the time of vaporization start.

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